

MONTHLY REPORT OF HYDROLOGIC CONDITIONS

REPORT FOR:
MONTH YEAR
January 2010

TO: Hydrologic Information Center, W/OS31
NOAA's National Weather Service
1325 East West Highway
Silver Spring, MD 20910-3283

SIGNATURE
John Gordon, MIC
Mike Callahan, Hydrologist

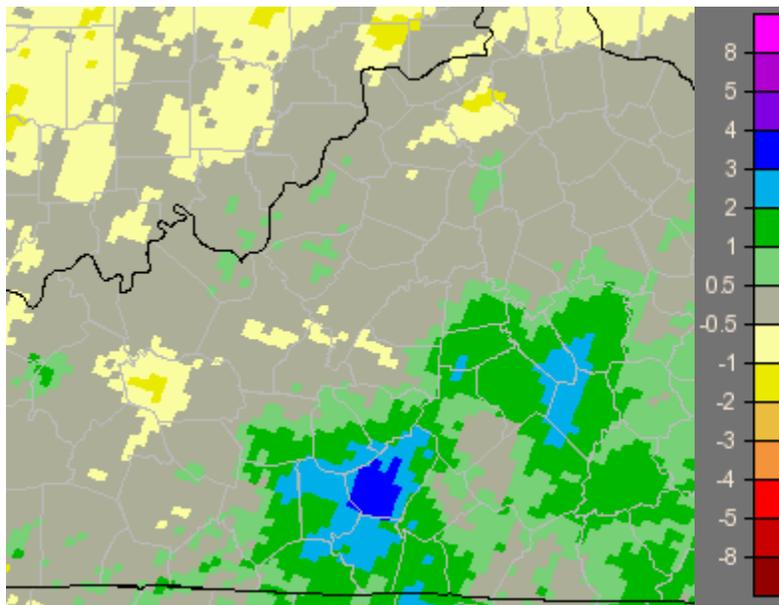
DATE
February 2, 2010

When no flooding occurs, include miscellaneous river conditions below the small box, such as significant rises, record low stages, ice conditions, snow cover, droughts, and hydrologic products issued (NWS Instruction 10-924).

An X inside this box indicates that no flooding occurred within this hydrologic service area.

The hydrologic service area (HSA) for this office covers Central Kentucky and South Central Indiana.

January was drier than normal over most of the HSA. Precipitation totals varied from around an inch below normal in South Central Indiana to three inches above in South Central Kentucky. The wettest area was in Adair County. Here are specific values for major airports: Louisville 2.86 inches, 0.42 inches below normal; Lexington 3.01 inches, 0.33 inches below normal; Bowling Green 2.85 inches, 1.30 inches below normal, Frankfort 2.80 inches, 0.35 inches below normal.



January 2010 Precipitation Departure from Normal

The first half of the month was cold. Between two and four inches of snow fell over most of the area between the 8th and 10th. The snow only contained a tenth or two of liquid and had melted a few days later. The last half of the month warmed up. Most of the rain fell between the 20th and the 24th where most locations collected around two inches. This resulted in minor flooding in Central Kentucky on Stoner Creek and the Green River. No damage or injuries were reported. Finally, another snow storm struck the area on the 29th and 30th. Locations in the far south collected between 4 and 8 inches with amounts trailing off to around an inch in South Central Indiana. Again, this snowpack only contained a few tenths of an inch of liquid.

At the end of the month, soil moisture and streamflows were near normal, reservoir levels were above normal.

NWS FORM E-3 U.S. DEPARTMENT OF COMMERCE NOAA, NATIONAL WEATHER SERVICE FLOOD STAGE REPORT	HYDROLOGIC SERVICE AREA: Louisville KY	
	MONTH: January	YEAR: 2010

RIVER AND STATION	FLOOD STAGE (FEET)	ABOVE FLOOD STAGE (UTC)		PRELIMINARY CREST (UTC)		
		FROM	TO	STAGE (FEET)	DATE	TIME (UTC)

Green River Rochester	33	01/24/10 1715	01/25/10 0020	17.0	01/24/10	1715
Stoner Creek Paris	18	01/25/10 0800	01/25/10 1830	18.6	01/25/10	1200

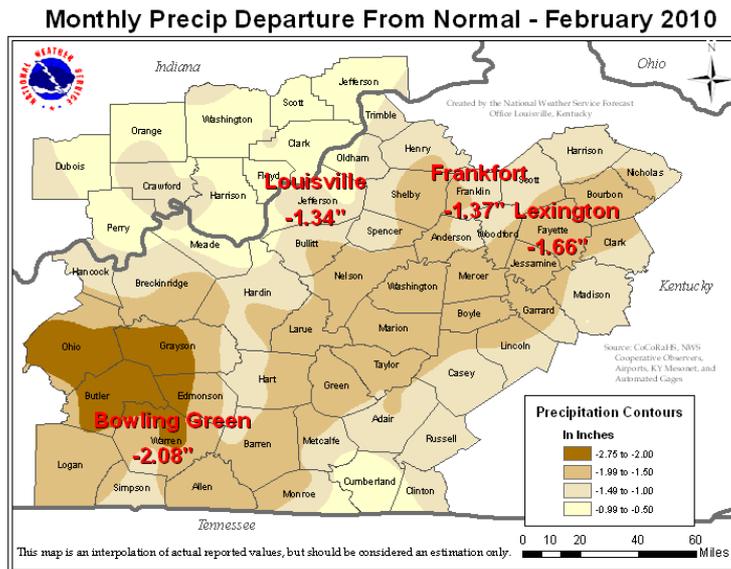
NWS Form E-5 (04-2006) (PRES. BY NWS Instruction 10-924)	U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL WEATHER SERVICE	HYDROLOGIC SERVICE AREA (HSA) Louisville KY
		REPORT FOR: MONTH YEAR February 2010
MONTHLY REPORT OF HYDROLOGIC CONDITIONS		SIGNATURE John Gordon, MIC Mike Callahan, Hydrologist
TO: Hydrologic Information Center, W/OS31 NOAA's National Weather Service 1325 East West Highway Silver Spring, MD 20910-3283		DATE March 3, 2010

When no flooding occurs, include miscellaneous river conditions below the small box, such as significant rises, record low stages, ice conditions, snow cover, droughts, and hydrologic products issued (NWS Instruction 10-924).

An X inside this box indicates that no flooding occurred within this hydrologic service area .

The hydrologic service area (HSA) for this office covers Central Kentucky and South Central Indiana.

February 2010 was drier than normal over all of the HSA. Precipitation totals varied from one to two inches below normal in most of Kentucky to less than an inch below in South Central Indiana. The driest area was in Ohio County KY. Here are specific values for major airports: Louisville 1.91 inches, 1.34 inches below normal; Lexington 1.61 inches, 1.66 inches below normal; Bowling Green 2.07 inches, 2.08 inches below normal, Frankfort 1.71 inches, 1.37 inches below normal.



Even though the precipitation was below normal, snowfall was above normal. Most locations added up between 7 inches in the south to 18 inches in the north for the month. This was the fourth snowiest February in Louisville and the fifth snowiest in Lexington. Most of the month was cold.

Most of the precipitation fell on the 5th and 6th in a cold rain where about an inch was recorded. A snowstorm struck on the 8th and 9th where about 6 inches of snow fell over much of the area. This snow contained around a half inch of liquid. A few days later on the 15th and 16th, another storm added up to a foot in Southern Indiana tapering off to an inch or two at the Tennessee boarder. Liquid ran from a half inch in the north to a tenth in the south.

At the end of the month, soil moisture and streamflows were below normal in Kentucky, but near normal in Indiana. Reservoir levels were near normal.

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		REPORT FOR: MONTH YEAR March 2010	
MONTHLY REPORT OF HYDROLOGIC CONDITIONS		SIGNATURE John Gordon, MIC Mike Callahan, Hydrologist	
TO: Hydrologic Information Center, W/OS31 NOAA's National Weather Service 1325 East West Highway Silver Spring, MD 20910-3283		DATE April 4, 2010	

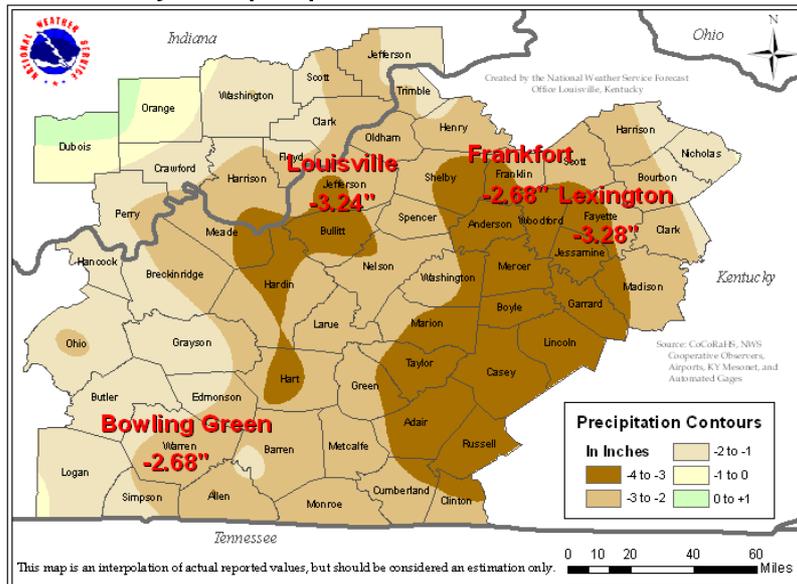
When no flooding occurs, include miscellaneous river conditions below the small box, such as significant rises, record low stages, ice conditions, snow cover, droughts, and hydrologic products issued (NWS Instruction 10-924).

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The hydrologic service area (HSA) for this office covers Central Kentucky and South Central Indiana.

March 2010 was drier than normal over almost all of the HSA. Precipitation totals varied from three to four inches below normal in Central Kentucky to a few tenths above normal in South Central Indiana. The driest area was in Boyle County KY. Here are specific values for major airports: Louisville 1.17 inches, 3.24 inches below normal; Lexington 1.13 inches, 3.28 inches below normal; Bowling Green 2.29 inches, 2.68 inches below normal, Frankfort 1.36 inches, 2.68 inches below normal. This was the sixth driest March on record in Louisville, the third driest in Lexington, and the fifth driest in Frankfort.

Monthly Precip Departure From Normal - March 2010



The precipitation which fell during the month came as scattered showers with a few thunderstorms and patterns were difficult to discern. No single day stood out. There was just a trace of snow during the month which fell on the 26th over the north.

The snowmelt from deep snowpacks in West Virginia and Pennsylvania caused the Ohio River to approach its banks during the middle of the month but locations stayed below flood stage. Heavy rains just north of the HSA caused minor flooding of the Muscatatuck River in Indiana on the 26th. No damage or injuries were reported.

At the end of the month, soil moisture and streamflows were below normal. Reservoir levels were near normal.

NWS FORM E-3 U.S. DEPARTMENT OF COMMERCE NOAA, NATIONAL WEATHER SERVICE FLOOD STAGE REPORT		HYDROLOGIC SERVICE AREA: Louisville KY				
		MONTH: March		YEAR: 2010		
RIVER AND STATION	FLOOD STAGE (FEET)	ABOVE FLOOD STAGE (UTC)		PRELIMINARY CREST (UTC)		
		FROM	TO	STAGE (FEET)	DATE	TIME (UTC)

Muscatatuck River Deputy	20	03/26/10 1235	03/26/10 1510	20.10	03/26/10	1345
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		MONTHLY REPORT OF HYDROLOGIC CONDITIONS	
TO: Hydrologic Information Center, W/OS31 NOAA's National Weather Service 1325 East West Highway Silver Spring, MD 20910-3283		REPORT FOR: MONTH YEAR April 2010	
		SIGNATURE John Gordon, MIC Mike Callahan, Hydrologist	
		DATE May 20, 2010	

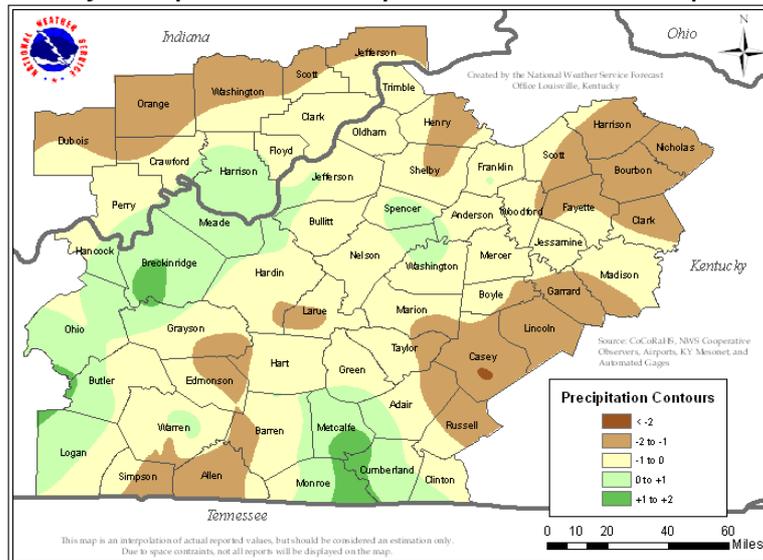
When no flooding occurs, include miscellaneous river conditions below the small box, such as significant rises, record low stages, ice conditions, snow cover, droughts, and hydrologic products issued (NWS Instruction 10-924).

An X inside this box indicates that no flooding occurred within this hydrologic service area .

The hydrologic service area (HSA) for this office covers Central Kentucky and South Central Indiana.

April 2010 was near normal over most of the HSA as far as precipitation. Totals varied from two inches below with the driest spot in Casey County KY to an inch above in the south central and in the west. However, most locations were within an inch of normal. Here are specific values for major airports: Louisville 3.97 inches, 0.06 inches above normal; Lexington 2.31 inches, 1.36 inches below normal; Bowling Green 3.21 inches, 0.78 inches below normal, Frankfort 3.34 inches, 0.33 inches below normal.

Monthly Precipitation Total Departure From Normal - April 2010



Most of the rain which fell during the month came between the 23rd and the 27th. Most locations collected between one to two inches. This rain saved the area from going into a moderate drought.

At the end of the month, soil moisture and streamflows were below normal but were improving. Reservoir levels were near normal. There was some concern over the possibility of the drought worsening. Low river levels were causing some minor problems with navigation.

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		REPORT FOR: MONTH YEAR May 2010
MONTHLY REPORT OF HYDROLOGIC CONDITIONS		SIGNATURE John Gordon, MIC Mike Callahan, Hydrologist
TO: Hydrologic Information Center, W/OS31 NOAA's National Weather Service 1325 East West Highway Silver Spring, MD 20910-3283		DATE June 16, 2010

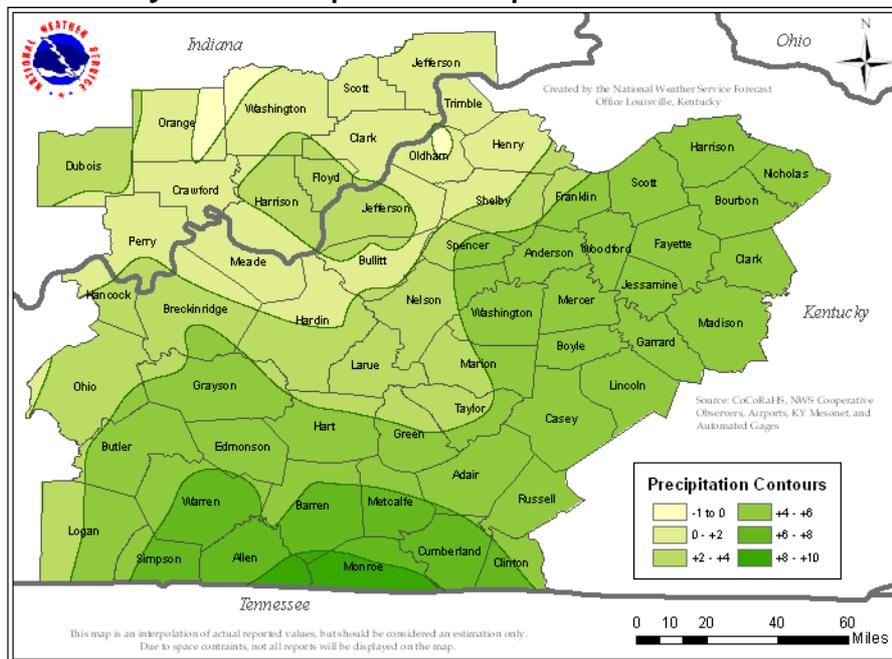
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The hydrologic service area (HSA) for this office covers Central Kentucky and South Central Indiana.

May 2010 had some of the heaviest rainfall and worst flooding in the area since 1997. Totals varied from just slightly below normal in Southern Indiana to almost 10 inches above in Southern Kentucky. The wettest spot was in Monroe County. Here are specific values for major airports: Louisville 8.16 inches, 3.28 inches above normal; Lexington 9.95 inches, 5.17 inches above normal; Bowling Green 11.87 inches, 6.51 inches above normal, Frankfort 9.22 inches, 4.61 inches above normal. This was the second wettest May on record in Bowling Green and Frankfort, the fourth wettest in Lexington, and the tenth wettest May in Louisville.

May 2010 Precipitation - Departure From Normal



Almost all of the rain fell on the first two days of the month. Locations in South Kentucky collected between 8 and 10 inches with a few locations receiving more than a foot. As bad as it was here it was worse in Tennessee. On the other hand, rainfall in South Indiana was much lighter and caused few problems.

The heavy rain triggered widespread flash flooding across all of Kentucky in which four Kentuckians lost their lives. Later, the most of the river basins in Kentucky witnessed major flooding. Only minor flooding was observed in Indiana. Major crests were reached on Stoner Creek at Paris, the Kentucky River at High Bridge and Frankfort, the Rolling Fork River at Boston, and the Green River at Woodbury. Record crests were recorded at Drakes Creek at Alvaton and the Dix River at Danville. Early damage estimates exceeded 30 million dollars. Presidential disaster declarations were made for 55 counties in Kentucky.

Thankfully, most of the rest of the month was dry. The only other significant rain was on the 20th and 21st where the north collected between one and two inches. This shot of rain cause new minor flooding on the Muscatatuck River. The lack of later rain was the only thing which kept this from being a record breaking month for rainfall totals.

At the end of the month, soil moisture and streamflows were near normal. The extreme heavy rain on the first two days did not soak into the ground enough to moisten the lower levels. Reservoir levels were near normal except at Rough River Lake which was about 10 feet above and Barren River Lake which was about 19 feet above.

NWS FORM E-3 U.S. DEPARTMENT OF COMMERCE NOAA, NATIONAL WEATHER SERVICE FLOOD STAGE REPORT	HYDROLOGIC SERVICE AREA: Louisville KY					
	MONTH: May			YEAR: 2010		
RIVER AND STATION	FLOOD STAGE (FEET)	ABOVE FLOOD STAGE (UTC)		PRELIMINARY CREST (UTC)		
		FROM	TO	STAGE (FEET)	DATE	TIME (UTC)

Muscatatuck River Deputy IN	20	05/03/10 0340 05/12/10 2020	05/03/10 1245 05/13/10 0850	20.75 22.11	05/03/10 05/13/10	0730 0300
Blue River Fredericksburg IN	20	05/03/10 0720	05/03/10 1250	20.41	05/03/10	1045
Stoner Creek Paris	18	05/02/10 1745	05/04/10 2045	26.15	05/03/10	1700
South Fork Licking River Cynthiana	20	05/03/10 1100	05/05/10 0335	21.92	05/04/10	1400
Licking River Blue Licks Spring	25	05/02/10 1710	05/08/10 0000	40.95	05/05/10	1445
Kentucky River Ford	26	05/02/10 2210	05/05/10 2330	32.30	05/03/10	1515
High Bridge	30	05/03/10 0115	05/06/10 1445	42.6	05/04/10	1800
Frankfort	31	05/03/10 0850	05/07/10 1005	42.84	05/05/10	0000
Rolling Fork River Boston	35	05/02/10 1935	05/08/10 0700	50.74	05/05/10	0030
Rough River Dundee	25	05/02/10 0420	05/06/10 0745	28.72	05/03/10	1700
Barren River Bowling Green	28	05/02/10 1915	05/05/10 1605	43.69	05/03/10	2015
Green River Munfordville	28	05/02/10 1850	05/06/10 2220	51.88	05/04/10	1000
Brownsville	18	05/02/10 1600	05/08/10 1200	37.5	05/05/10	1145
Woodbury	33	05/02/10 0900	05/12/10 0050	49.52	05/05/10	1900
Rochester	17	05/02/10 1000	05/16/10 0540	28.6	05/07/10	1100
Ohio River Tell City IN	38	05/06/10 0000	05/09/10 0230	40.8	05/07/10	1700

Otherwise, rain fell in scattered thunderstorms and specific patterns were difficult to discern. Rain was sufficient to keep areas from going into a drought.

At the end of the month, soil moisture, streamflows, and reservoir levels were near normal. There were a few minor problems with navigation due to low flows on the Ohio River.

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		REPORT FOR: MONTH YEAR August 2010
MONTHLY REPORT OF HYDROLOGIC CONDITIONS		SIGNATURE John Gordon, MIC Mike Callahan, Hydrologist
TO: Hydrologic Information Center, W/OS31 NOAA's National Weather Service 1325 East West Highway Silver Spring, MD 20910-3283		DATE September 4, 2010

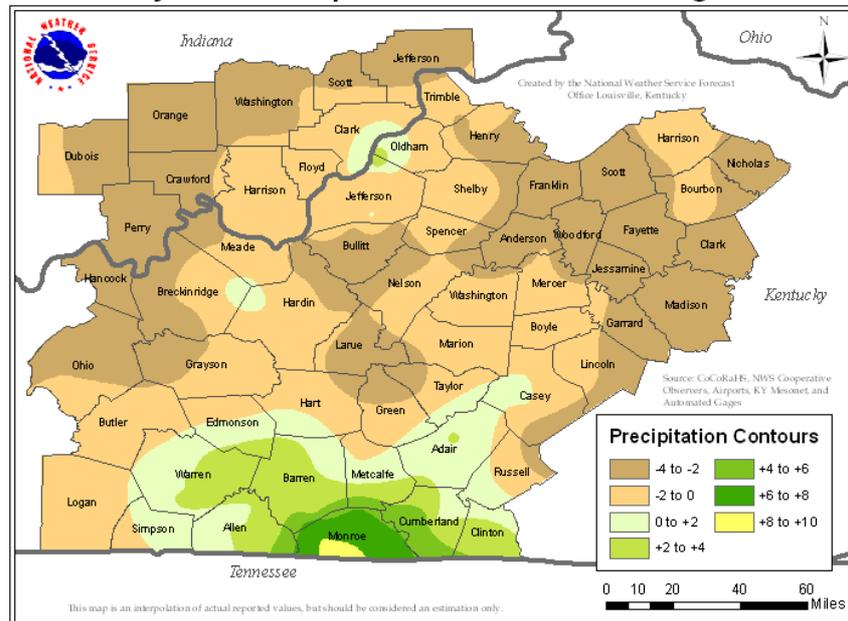
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An X inside this box indicates that no flooding occurred within this hydrologic service area .

The hydrologic service area (HSA) for this office covers Central Kentucky and South Central Indiana.

August 2010 had precipitation varying widely across the area. Most of the area was between 1 to 3 inches below normal. However, locations in Southern Kentucky collected as much as 8 inches above normal. The wettest parts were in Monroe County. Here are specific values for major airports: Louisville 2.06 inches, 1.35 inches below normal; Lexington 0.58 inches, 3.19 inches below normal, the third driest August on record; Bowling Green 5.60 inches, 2.24 inches above normal, Frankfort 1.20 inches, 2.38 inches below normal. It was a very warm summer, June through August, at all locations. It was the warmest on record in Louisville, third warmest in Bowling Green, and fifth warmest in Lexington and Frankfort.

Monthly Rainfall Departure From Normal - August 2010



Most of the rain that fell in the north occurred on the 14th when most locations collected between a half and an inch of rain. The big storm in the south was on the 18th where a series of thunderstorms dumped between 2 to 4 inches across the south with some 8 inches along the Kentucky - Tennessee border. This rain did trigger flash flooding but fortunately no serious injuries were reported. Little rain fell during the month outside of these two days.

At the end of the month, streamflows and reservoir levels were near normal, except for Barren River Lake which was 5 feet above normal. Soil moisture was below normal. South Central Indiana and Northern Kentucky along the Ohio River were in a mild drought. There were continuing problems with navigation due to low flows on the lower end of the Ohio River. No problems were reported with water supplies.

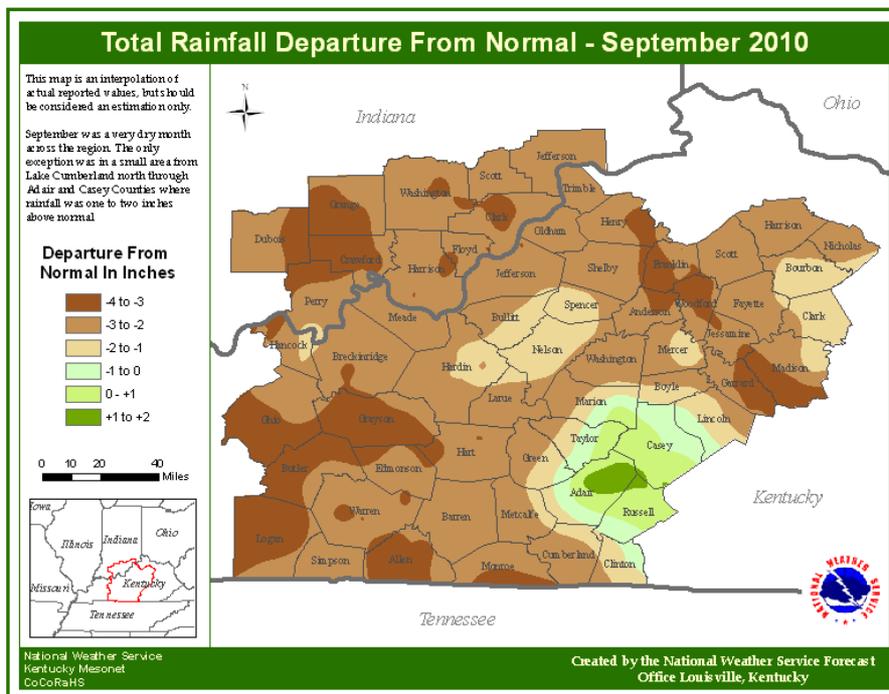
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		REPORT FOR: MONTH YEAR September 2010
MONTHLY REPORT OF HYDROLOGIC CONDITIONS		SIGNATURE John Gordon, MIC Mike Callahan, Hydrologist
TO: Hydrologic Information Center, W/OS31 NOAA's National Weather Service 1325 East West Highway Silver Spring, MD 20910-3283		DATE October 7, 2010

When no flooding occurs, include miscellaneous river conditions below the small box, such as significant rises, record low stages, ice conditions, snow cover, droughts, and hydrologic products issued (NWS Instruction 10-924).

An X inside this box indicates that no flooding occurred within this hydrologic service area .

The hydrologic service area (HSA) for this office covers Central Kentucky and South Central Indiana.

September 2010 had precipitation varying widely across the area. Most of the area was between 1 to 3 inches below normal with a few locations collecting hardly any rain at all. However, locations in Southeast Kentucky collected as much as 2 inches above normal. The wettest parts were in Adair County. Here are specific values for major airports: Louisville 0.12 inches, 2.93 inches below normal, the driest September on record; Lexington 0.61 inches, 2.50 inches below normal, tied for sixth driest September; Bowling Green 1.14 inches, 2.99 inches below normal; Frankfort 0.31 inches, 2.84 inches below normal, the second driest September.



Most of the rain that fell in the south occurred on the 10th and 11th when most locations collected between one to three inches, especially in the southeast where some spots collected up to five inches. There were no days with significant rain in the north.

At the end of the month, streamflows were below normal. Reservoir levels were near normal, except at Patoka and Taylorsville Lakes which were about 2 feet below normal. Soil moisture was below normal.

South Central Indiana was in a severe drought, the north half of Kentucky was in a moderate drought, and the south was in a mild drought. There were continuing problems with navigation due to low flows on the lower end of the Ohio River. Several municipal water systems were asking for voluntary restrictions. Burn bans were common throughout Indiana and the north half of Kentucky and many field fires had been reported. Crops were being harvested early.

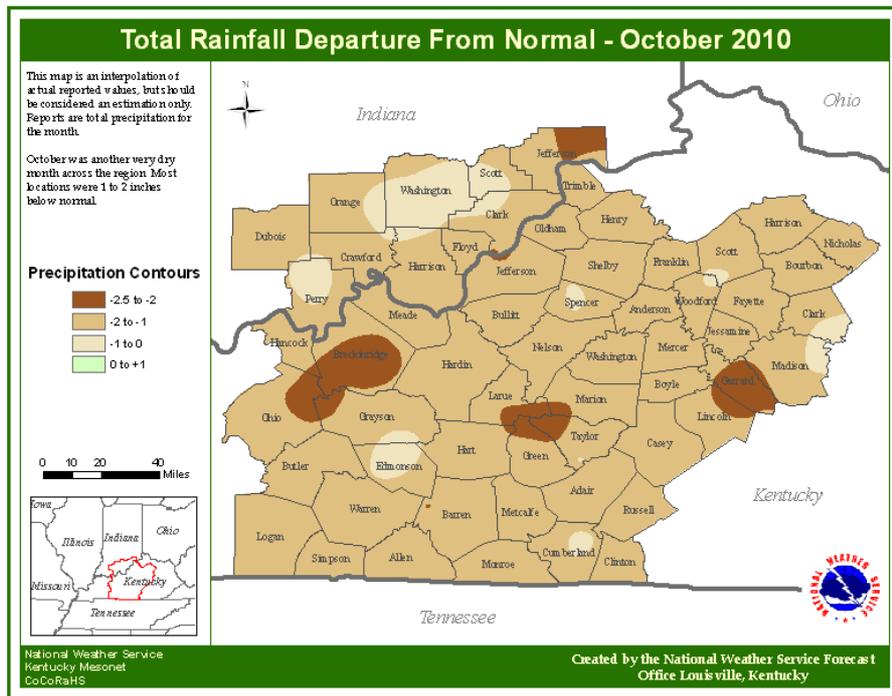
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		REPORT FOR: MONTH YEAR October 2010
MONTHLY REPORT OF HYDROLOGIC CONDITIONS		SIGNATURE John Gordon, MIC Mike Callahan, Hydrologist
TO: Hydrologic Information Center, W/OS31 NOAA's National Weather Service 1325 East West Highway Silver Spring, MD 20910-3283		DATE November 10, 2010

When no flooding occurs, include miscellaneous river conditions below the small box, such as significant rises, record low stages, ice conditions, snow cover, droughts, and hydrologic products issued (NWS Instruction 10-924).

An X inside this box indicates that no flooding occurred within this hydrologic service area .

The hydrologic service area (HSA) for this office covers Central Kentucky and South Central Indiana.

October 2010 had precipitation below normal in all locations in the area. Most of the area was between 1 to 3 inches below normal. The driest parts were in Breckenridge County. Here are specific values for major airports: Louisville 1.04 inches, 1.75 inches below normal; Lexington 1.24 inches, 1.46 inches below normal; Bowling Green 1.84 inches, 1.33 inches below normal; Frankfort 1.24 inches, 1.42 inches below normal.



Most of the rain that fell during the month fell on the 26th, when a line of severe thunderstorms moved through the area. Up to an inch of rain was recorded. This rain kept the month from being one of the driest on record.

At the end of the month, streamflows were below normal except at locations downstream of reservoirs. Reservoir levels were falling due to the winter drawdown. Soil moisture was below normal. South Central Indiana and the northern edge of Kentucky along the Ohio River was in an extreme drought, the remainder of the northwest of the HSA was in a severe drought, and the rest was in a moderate to mild drought.

There were continuing problems with navigation due to low flows on the lower end of the Ohio River. Several municipal water systems were asking for voluntary restrictions. Some private wells were giving poor water or had run dry. Burn bans were common throughout Indiana and the Bluegrass Region of Kentucky and many field fires had been reported. Crops were harvested at record early levels. Late season crops were having problems germinating.

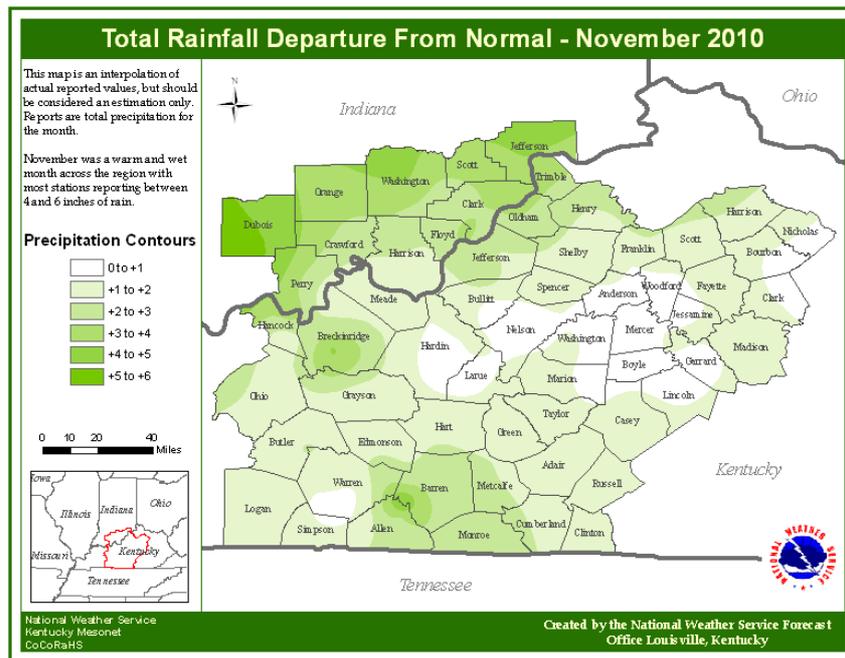
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		MONTHLY REPORT OF HYDROLOGIC CONDITIONS
REPORT FOR: MONTH YEAR November 2010		SIGNATURE John Gordon, MIC Mike Callahan, Hydrologist
TO: Hydrologic Information Center, W/OS31 NOAA's National Weather Service 1325 East West Highway Silver Spring, MD 20910-3283		DATE December 6, 2010

When no flooding occurs, include miscellaneous river conditions below the small box, such as significant rises, record low stages, ice conditions, snow cover, droughts, and hydrologic products issued (NWS Instruction 10-924).

An X inside this box indicates that no flooding occurred within this hydrologic service area .

The hydrologic service area (HSA) for this office covers Central Kentucky and South Central Indiana.

November 2010 had precipitation above normal in all locations in the area. Most of the area was between 1 to 3 inches above normal. Parts of South Central Indiana were as much as 5 inches above normal. The wettest locations were in Dubois County. Here are specific values for major airports: Louisville 5.96 inches, 2.15 inches above normal; Lexington 4.46 inches, 1.02 inches above normal; Bowling Green 5.27 inches, 0.81 inches above normal; Frankfort 5.18 inches, 1.85 inches above normal.



The month was dry until a storm system gave most locations about an inch of rain on the 16th. A prolonged period of rain arrived from the 23rd through the 26th, where most locations collected between 2 and 3 inches. Finally, the last two days of the month were wet, adding another inch to an -inch and a half to the total. The rain was very welcome and alleviated most drought conditions in the area.

At the end of the month, streamflows had returned to normal. A few reservoir levels were falling due to the winter drawdown, the rest were normal. Soil moisture was near normal. North Central Kentucky was still in a severe drought, the rest of the area was in a moderate drought. This is expected to improve rapidly.

No problems were reported with municipal supplies or navigation.

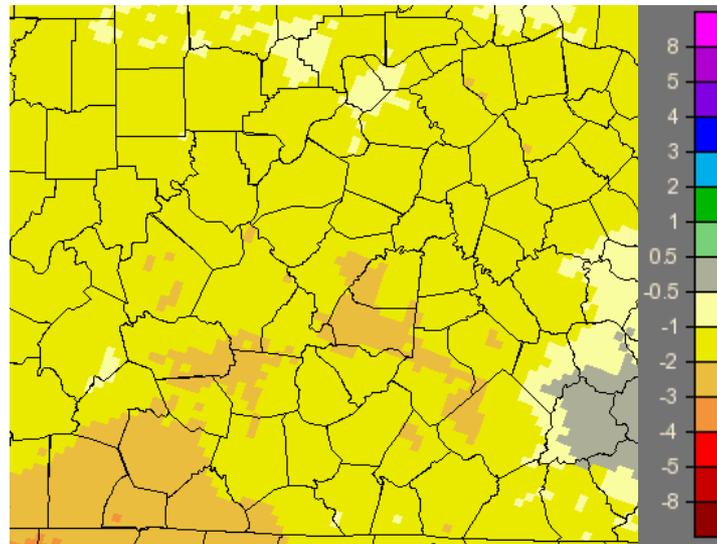
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		MONTHLY REPORT OF HYDROLOGIC CONDITIONS
TO: Hydrologic Information Center, W/OS31 NOAA's National Weather Service 1325 East West Highway Silver Spring, MD 20910-3283		REPORT FOR: MONTH YEAR December 2010
		SIGNATURE John Gordon, MIC Mike Callahan, Hydrologist
		DATE January 3, 2011

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The hydrologic service area (HSA) for this office covers Central Kentucky and South Central Indiana.

December 2010 was drier than normal in all locations in the area. Most of the area was between 1 to 3 inches below normal. The driest locations were in Simpson County. Even though the month was dry, more snow fell than normal. In fact, this was the sixth snowiest and fifth coldest December in Lexington. Here are specific values for major airports: Louisville 1.66 inches, 2.03 inches below normal; Lexington 2.49 inches, 1.54 inches below normal; Bowling Green 1.93 inches, 3.13 inches below normal; Frankfort 1.98 inches, 1.73 inches below normal.



December 2010 Precipitation Departure from Normal

Light precipitation fell many days as flurries during the month. A series of winter storms struck on the 11th through the 16th, giving around an inch of liquid resulting in 3 to 5 inches of snow. A Christmas Eve storm moved through the south giving a between 2 to 4 inches of snow with up to a quarter inch of liquid. Another system moved in on the 29th and 30th, giving an additional half inch of rain.

At the end of the month, streamflows and reservoir levels were near normal. Only the extreme western portions of the HSA remained in a moderate drought. The rest of the area was in a mild drought except for the southeast which was not in a drought.

No problems were reported with municipal supplies or navigation.